=> FILE REG

FILE 'REGISTRY' ENTERED AT 15:29:39 ON 27 MAR 2008
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=> DISPLAY HISTORY FULL L1-

L1 L2 L3 L4 L5	15209 65046 31214 124 47365	LUS' ENTERED AT 15:14:20 ON 27 MAR 2008 SEA PARK Y?/AU SEA LEE J?/AU SEA PARK J?/AU SEA L1 AND L2 AND L3 SEA GERMANIUM#/TI SEA L4 AND L5
L7		STRY' ENTERED AT 15:15:45 ON 27 MAR 2008 SEA GE/ELS AND 1/ELC.SUB
L8 L9	82112 3284	ENTERED AT 15:18:59 ON 27 MAR 2008 SEA L7 SEA YELLOW?(2A)(SOIL# OR OCHER# OR DIRT OR DIRTS OR EARTH# OR TOPSOIL? OR SUBSOIL?) SEA L8 AND L9
L11		ENTERED AT 15:19:56 ON 27 MAR 2008 SEA (PRODUC? OR PROD# OR GENERAT? OR MANUF? OR MFR# OR CREAT? OR FORM## OR FORMING# OR FORMAT? OR MAKE# OR MADE# OR MAKING# OR FABRICAT? OR SYNTHESI? OR PREPAR? OR PREP#)/BI,AB
L12	2453	SEA (RECOVER? OR RECLAMAT? OR RECLAIM? OR RETRIEV? OR SALVAG? OR REGENERAT? OR RECONDITION? OR REFORM? OR RECONSTITUT? OR REUSE# OR REUSING# OR RECYCL? OR REPROCESS?)/BI,AB
L13	3	SEA (RE(W)(COVER? OR CLAMAT? OR CLAIM? OR GENERAT? OR CONDITION? OR FORM? OR CONSTITUT? OR USE# OR USING# OR CYCL? OR PROCESS?))/BI,AB
	17398 865 23 433	ENTERED AT 15:21:14 ON 27 MAR 2008 SEA L11(2A)(GERMANIUM# OR GE) SEA (L12 OR L13)(2A)(GERMANIUM# OR GE) SEA L10 AND (L14 OR L15) QUE AQ# OR AQUEOUS? OR WATER? OR H20 SEA FIREPLAC? SEA KILN? OR OVEN? OR FURNAC?

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L20
               OUE HEAT? OR HOT# OR WARM? OR THERMO? OR THERMAL?
L21
             1 SEA L10 AND L18
L22
             1 SEA L10 AND L19
L23
            17 SEA L10 AND L20
            33 SEA L10 AND L17
L24
L25
             9 SEA L23 AND L24
             10 SEA L21 OR L22 OR L25
L26
             18 SEA L16 NOT L26
L27
L28
            19 SEA (L23 OR L24) NOT (L26 OR L27)
L29
            16 SEA L10 NOT (L26 OR L27 OR L28)
L30
            9 SEA 1840-2004/PY, PRY, AY AND L26
L31
             16 SEA 1840-2004/PY, PRY, AY AND L27
L32
             16 SEA 1840-2004/PY, PRY, AY AND L28
L33
            12 SEA 1840-2004/PY, PRY, AY AND L29
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=> FILE HCA

FILE 'HCA' ENTERED AT 15:30:29 ON 27 MAR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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=> D L30 1-9 BIB ABS HITIND

L30 ANSWER 1 OF 9 HCA COPYRIGHT 2008 ACS on STN

AN 145:479972 HCA Full-text

TI Far infrared-emitting compositions comprising far infrared-emitting materials and recycled oil

IN Lee, Sang Chul

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
					DITTE
PI	KR 2005003614	A	20050112	KR 2003-44436	200307

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PRAI KR 2003-44436

20030701 <--

- Provided is a far IR ray-emitting oil heat medium compn. which has higher energy efficiency than water, thereby showing energy saving effects, and gives biol. favorable effects from far IR ray emission. The far IR ray-emitting oil heat medium compn. for heating is prepd. by mixing finely ground yellow other 5-20, alkylate gel 5-20, a polymer 5-20, amethyst 5-20, jade 5-20, germanium 5-20, elvan 5-20, ceramic 5-20, kaolinite 5-20, and charcoal powder 1-10 wt. %, and dilg. the mixed powder with recycled lubricating oil or recycled cooking oil in a ratio of 3 to 7.
- IC ICM C09K005-08
- CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
- IT 1318-74-7, Kaolinite (Al2(OH)4(Si2O5)), uses 7440-56-4,
 Germanium, uses 12601-21-7, Jade 14832-91-8, Amethyst
 (far IR-emitting compns. comprising far IR-emitting materials and recycled oil)
- L30 ANSWER 2 OF 9 HCA COPYRIGHT 2008 ACS on STN
- AN 145:403375 HCA Full-text
- TI Production method of anionic functional water for washing marine products, fruit and vegetables by using far-infrared emitting ore for removing contaminants
- IN Kim, Yeon Gyu
- PA Jeil Su San Co., Ltd., S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7
- DT Patent
- LA Korean
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2004107453	А	20041220	KR 2004-70135	200408
PI	KR 2004107453	A	20041220	KR 2004-70135	20

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PRAI KR 2004-70135

20040804 <--

AB To provide a prodn. method of anionic functional water for eluting a large amt. of minerals from relatively smaller ore, removing contaminants within a short period of time and having the functional water contain a large amt. of SiO2 by using heat, injecting air and using flow of water when eluting minerals to produce the functional water. The prodn. method of anionic functional water comprises first step of fabricating a cylindrical vessel and an air injection pipe using stainless steel having thickness of 3 mm; second step of crushing far-IR emitting ore including elvan, germanium, jade and amphibole to pieces having diam. of 20 mm or less, molding yellow

soil into bead shaped balls, forming fired yellow soil balls by firing the bead shaped balls at a temp. of 300 to 600°C, and mixing the materials after putting 5 kg of far-IR emitting ore pieces, 5 kg of the fired yellow soil balls and 200 L of clean water such as underground water and tap water into the cylindrical vessel so that minerals are eluted from the mixt.; third step of heating the cylindrical vessel by a gas burner so that large amts. of minerals are eluted from the mixt. to produce bio-functional water; and fourth step of aging the bio-functional water after transferring the produced bio-functional water to a storage tank, wherein the mixt. is aged for about 5 to 24 h after putting anion emitting ore and yellow soil balls into the bio-functional water contained in the storage tank in the same manner as in the second step.

IC ICM C02F001-68

CC 61-5 (Water)

Section cross-reference(s): 17

ST anion functional water washing marine product fruit vegetable

IT IR sources

(far-IR; prodn. method of anionic functional water for washing marine products fruit and vegetables by using far IR emitting ore for removing contaminants)

IT Vegetable

Water purification

(prodn. method of anionic functional water for washing marine products fruit and vegetables by using far IR emitting ore for removing contaminants)

IT Amphibole-group minerals

Elvanite

(prodn. method of anionic functional water for washing marine products fruit and vegetables by using far IR emitting ore for removing contaminants)

IT Soils

(yellow; prodn. method of anionic functional water for washing marine products fruit and vegetables by using far IR emitting ore for removing contaminants)

IT 7440-56-4, Germanium, uses 7631-86-9, Silica, uses

12601-21-7, Jade

(prodn. method of anionic functional water for washing marine products fruit and vegetables by using far IR emitting ore for removing contaminants)

- L30 ANSWER 3 OF 9 HCA COPYRIGHT 2008 ACS on STN
- AN 144:330580 HCA Full-text
- TI Method of manufacturing germanium-containing aqueous solution from yellow soil
- IN Park, Ji Young; Park, Young Man; Lee, Jang Young

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Seung, Keun Ku, S. Korea
PA
SO
     PCT Int. Appl., 11 pp.
     CODEN: PIXXD2
DT
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                        KIND
                               DATE
                                          APPLICATION NO.
                                                                  DATE
    WO 2006033535
                               20060330 WO 2005-KR3056
PI
                        A1
                                                                  200509
                                                                  15
                                                 <--
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,
             CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
             GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,
            KP, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN,
            MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU,
             SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA,
            UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
             IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
             TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
             ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
                               20060323 KR 2004-75268
     KR 2006026377
                         Α
                                                                  200409
                                                                  20
                                                 <--
     KR 750351
                         В1
                               20070817
                               20060426
     CN 1762826
                         Α
                                        CN 2005-10103184
                                                                  200509
                                                                  20
    US 2007095170 A1
                               20070503 US 2005-560668
                                                                  200512
                                                                  14
                                                <--
PRAI KR 2004-75268
                               20040920 <--
                         Α
     WO 2005-KR3056
                         W
                               20050915
     The present invention relates to a method of manufq. germanium-contq.
AB
```

The present invention relates to a method of manufg. germanium-contgage, soln. from yellow soil distributed on the earth's surface, with high efficiency and in environment friendly and economical manners. The method comprises (i) forming clods by clumping the yellow soil including the earth from a fireplace; (ii) drying the clods of the soil at room temp. for > 24 h or by heating them; (iii) heating the clods of the soil to red heat at 750 to 930° for 30 to 60 min; (iv)

dipping the red-heated clods of the soil in water to ext. oxidized germanium; and (v) filtering the aq. soln. including the clods of the The org. germanium obtained this way has no harmful effect on the human body. The germanium-contg. soln. may be used as an activating material or auxiliary material for various products depending on its adaptability to specific field, e.g., for cosmetics to supply oxygen to the skin, and as drinking water. For example, the contents of 72Ge and 74Ge in the water ext. from the clods of yellow soil was about 160 times as much as the std. water and 7 times as much as the water ext. from the germanium raw ore.

ICM A61K033-00 IC

> ICS A61K035-00; C01G017-00; C22B001-02; C22B001-16; C22B003-02; C22B003-22; C22B015-00; C22B041-00

CC 18-1 (Animal Nutrition)

Section cross-reference(s): 17, 62, 63

germanium soln yellow soil drinking ST water

Cosmetics ΙT

Drinking waters

(manufg. of germanium-contg. ag. soln. from yellow soil)

ΙT Soils

> (yellow; manufg. of germanium-contg. aq. soln. from yellow soil)

ΙT 7440-56-4, Germanium, biological studies 13982-21-3 , Germanium 72, biological studies 15034-59-0, Germanium 74, biological studies

> (manufg. of germanium-contg. aq. soln. from vellow soil)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 4 OF 9 HCA COPYRIGHT 2008 ACS on STN

142:224240 HCA Full-text AN

Yellow earth mortar for construction finishing, ΤI and application of breathable mortar

Sur, Chang Min ΙN

PΑ S. Korea

Repub. Korean Kongkae Taeho Kongbo, No pp. given SO CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

PΙ

• • • • • • • • • • • • • • • • • • • •				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2003074523	A	20030919	KR 2003-53235	

PRAI KR 2003-53235

20030731 <--

Provided is a yellow earth mortar as a plastering material applied to AB the floors, which has emission of far IR rays and anions beneficial on human, deodorization, sterilization, and decreases application time and cost. The yellow earth mortar comprises 1200-1250kg of yellow earth less than 5mm in size, 50-100kg of fine yellow earth powder, 140kg of functional natural minerals such as elvan and germanium, 200-260kg of slag or portland cement, hardening soln. obtained by dilg. 20L of hardener into 180-400L of water, and small amts. of aroms. The prepd. yellow earth mortar is applied to a floor by the following steps of: removing impurities from a floor, coating a hardening soln. on the floor; laying a styrofoam sheet in a thickness more than 20mm for sound and heat insulation; spreading autoclaved lightwt. concrete, ALC over the styrofoam sheets in a thickness of 50mm or more; drying at 24-36h; laying a heating pipe on the concrete; spreading the prepd. mortar in a 4-12mm thickness; plastering the surface of the mortar; and drying.

IC ICM C04B014-10

CC 58-3 (Cement, Concrete, and Related Building Materials)

ST yellow earth mortar construction finishing

IT Cement

Mortar

Slags

(yellow earth mortar for construction

finishing and application of breathable mortar)

IT Aromatic hydrocarbons, uses

Elvanite

(vellow earth mortar for construction

finishing and application of breathable mortar)

IT 7440-56-4, Germanium, uses

(yellow earth mortar for construction

finishing and application of breathable mortar)

L30 ANSWER 5 OF 9 HCA COPYRIGHT 2008 ACS on STN

AN 142:221128 HCA Full-text

TI Manufacturing method of functional cotton

IN Choi, Myung Bu; Park, Jung In

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI KR 2003051112 A 20030625 KR 2001-85508

200112 18

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PRAI KR 2001-85508 20011218 <--

AB Functional cotton contg. jade, ceramic, yellow soil and charcoal is characterized by having soft feeling, radiating far IR ray, deodorizing, having antibiosis and promoting health. Functional cotton is obtained by the steps of: mixing 1000g of jade powder, 500g of germanium powder and 500g of yellow soil with 5000mL of spring water, followed by stirring them; pptg. a mixed material to give 3000mL of jade/ yellow soil soln.(jijangsu); mixing 500g of charcoal with the jijangsu; mixing 1000mL of an acrylic binder with the mixt.; and then binding cotton with the mixed material.

- IC ICM D06M011-00
- CC 40-10 (Textiles and Fibers)
- IT Binders

(thermoplastic, acrylic; manuf. of functional cotton contg. various additives)

IT Soils

(yellow; manuf. of functional cotton contg. various additives)

- IT 7440-56-4, Germanium, uses 12601-21-7, Jade (manuf. of functional cotton contg. various additives)
- L30 ANSWER 6 OF 9 HCA COPYRIGHT 2008 ACS on STN
- AN 142:200229 HCA Full-text
- TI Composition for screening water-vein wave, preparation method thereof and waterproof water-vein wave screening agent containing the composition
- IN Hwang, Young Hee
- PA Kim, Sung Tae, S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7
- DT Patent
- LA Korean
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	KR 2003032186	А	20030426	KR 2001-63775	200110 16

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PRAI KR 2001-63775

20011016 <--

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AB
     A compn. for screening the water-vein wave, its prepn. method, a
     water-vein wave screening agent contg. the compn., and its use are
     provided, wherein the compn. irradiates the far IR ray and anions and
     shows the antibacterial and deodorizing effect. The compn. comprises
     5-25 wt% of a calcined one of a mixt. of at least one metal selected
     from gold, silver and copper, and at least one natural mineral
     component selected from yellow soil, jade stone, elvan and germanium;
     1-10 wt% of a bamboo charcoal; and 55-90 wt% of deep-sea water.
     prepn. method comprises the steps of calcining a mixt. of at least
     one metal selected from gold, silver and copper, and at least one
     natural mineral component selected from yellow soil, jade stone,
     elvan and germanium; pulverizing the calcined mixt.; mixing the
     pulverized one with a bamboo charcoal and deep-sea water; and heating
     the mixt. at a temp. of 50-80 °C for 1-10 days.
     ICM C09D001-00
IC
CC
     42-11 (Coatings, Inks, and Related Products)
ST
     waterproof screening water vein wave compn
ΙT
     Bamboo
        (charcoal; manuf. of compns. for waterproof screening
        water-vein wave)
ΙT
     Charcoal
        (from bamboo; manuf. of compns. for waterproof
        screening water-vein wave)
     Electromagnetic shields
ΙT
       Water-resistant materials
        (manuf. of compns. for waterproof screening
```

IT Elvanite

Minerals, uses

Stone (construction material)

water-vein wave)

(manuf. of compns. for waterproof screening
water-vein wave)

IT Soils

(yellow; manuf. of compns. for waterproof screening water-vein wave)

- TT 7440-22-4, Silver, uses 7440-50-8, Copper, uses 7440-56-4, Germanium, uses 7440-57-5, Gold, uses 12601-21-7, Jade (manuf. of compns. for waterproof screening water-vein wave)
- L30 ANSWER 7 OF 9 HCA COPYRIGHT 2008 ACS on STN
- AN 142:116613 HCA Full-text
- TI Heat preserver for high frequency heating
- IN Kim, Seung Man
- PA Koo, Sung Hwe, S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent
LA Korean
FAN.CNT 1
PATENT NO.

PΙ

KIND DATE APPLICATION NO. DATE

200204 26

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PRAI KR 2002-22850

KR 2002062864

20020426 <--

A 20020731 KR 2002-22850

Provided is a heat preserver for high frequency heating, which can emit heat rapidly, improve heat insulation, reduce heat expansion and has IR radiation emitting function. The heat preserver is filled in a vacuum pipe for high frequency heating, where the pipe contains a heating line made of synthetic resin or a nonferrous metal such as copper, stainless and aluminum. The heat preserver comprises water 20, yellow soil powder 20, jade powder 20, germanium powder 20, polyacrylamide 20 as coagulant and hydrocarbons 20 wt% as heating oil.

IC ICM C09K005-10

CC 47-4 (Apparatus and Plant Equipment)

ST heat preserver high frequency heating

IT Heaters

IR sources

Thermal insulators

(heat preserver for high frequency heating)

IT Plastics, uses

(heat preserver for high frequency heating)

IT Hydrocarbon oils

(heat preserver for high frequency heating)

IT Metals, uses

(nonferrous; heat preserver for high frequency heating)

IT Pipes and Tubes

(vacuum; heat preserver for high frequency heating)

IT Soils

(yellow, powd.; heat preserver for high frequency heating)

IT 7429-90-5, Aluminum, uses 7440-50-8, Copper, uses 12597-68-1, Stainless steel, uses

(heat preserver for high frequency heating)

IT 7440-56-4, Germanium, uses 9003-05-8, Polyacrylamide

12601-21-7, Jade

(powd.; heat preserver for high frequency heating)

L30 ANSWER 8 OF 9 HCA COPYRIGHT 2008 ACS on STN

AN 139:262863 HCA Full-text

TI Manufacture of a synthetic mineral

IN Park, Yong-jin

PA S. Korea

SO U.S. Pat. Appl. Publ., 6 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003176274	A1	20030918	US 2002-154817	200205 28
				<	
	US 6936557	В2	20050830		
	KR 2003073916	A	20030919	KR 2002-13685	200203
				<	
	JP 2003267792	A	20030925	JP 2002-119178	200204
				<	
	CN 1444923	A	20031001	CN 2002-119158	200205 10
				<	

PRAI KR 2002-13685 A 20020314 <--

AB A novel multipurpose mineral compn. is manufd. by setting up an iron railing, an iron rod and an iron plate on a brazier, placing a tin foil on the iron plate, and layering yellow soil , kaolin, sericite, and biomineral in sequence on the tinfoil, while inserting the tin foil between the layers, loading a pulverized elvan in the furnace, pulverizing a mixed stone including 40% of germanium, 15% of truemarine, 30% of zeolite, and 15% of franklin, to a particle size of \leq 44 μm , and loading the pulverized mixed stone in an internal furnace which is made by lining a copper coil with a tinfoil and placing it on the plurality of layers of the furnace, heating the pulverized mixed stone at .apprx.1,000° for about seven days pulverizing the obtained product.

IC ICM C04B035-64

ICS C04B035-10; C04B035-16; C04B035-14

INCL 501153000; X50-115.4

CC 49-4 (Industrial Inorganic Chemicals)

Section cross-reference(s): 53

IT 7440-56-4, Germanium, reactions

(manuf. of synthetic mineral)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 9 OF 9 HCA COPYRIGHT 2008 ACS on STN

AN 137:114145 HCA Full-text

TI Method for preparing water-purifying body of water purifier

IN Han, Myung Hun

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	\mathtt{KIND}	DATE	APPLICATION NO.	DATE
PI	KR 2000074036	A	20001205	KR 1999-17695	199905 17

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PRAI KR 1999-17695

19990517 <--

AB A method for prepg. a H2O-purifying body of a H2O purifier is provided by which provided H2O-purifying body is able to produce spring H2O contg. a large amt. of minerals by cleanly filtering contaminants from tap H2O in a natural filtering manner. The method comprises steps of (1) forming a main body of a H2O-purifying body having a regular shape by compressing a kneaded dough, which is prepd. by mixing and stirring 65-75% of a yellow soil, 5-15% of a jade powder, 3-7% of a Ge powder, 3-7% of Elvan powder. 5-15% of a bio-ceramic powder, 1-3% of a charcoal powder and H2O, by using a die; (2) naturally drying the formed main body of a H2O-purifying body in a shaded ground for 2-3 days; and (3) firing the naturally dried main body of a H2O -purifying body in a calciner at a temp. of 9,000-10,000°.

IC ICM B01D039-06

CC 61-5 (Water)

ST prepn water purifn app filtering

IT Elvanite

(Elvan; method for prepg. water-purifying body of water purifier)

IT Water purification

(app.; method for prepg. water-purifying body of

```
water purifier)
ΙT
    Powders
        (ceramic; method for prepg. water-purifying body of
       water purifier)
ΙT
    Dies
     Dough
     Drinking waters
     Filters
     Filtration
     Firing (heat treating)
    Mineral waters
    Mixing
     Spring waters
      Water purification
        (method for prepg. water-purifying body of
       water purifier)
ΙT
    Charcoal
        (method for prepg. water-purifying body of
       water purifier)
ΙT
    Ceramics
        (powders; method for prepg. water-purifying body of
       water purifier)
ΙT
    Soils
        (yellow; method for prepg. water-purifying
       body of water purifier)
ΙT
     7440-56-4, Germanium, uses 12601-21-7, Jade
        (method for prepg. water-purifying body of
       water purifier)
=> D L31 1-16 BIB ABS HITIND
L31 ANSWER 1 OF 16 HCA COPYRIGHT 2008 ACS on STN
     145:294697 HCA Full-text
AN
    Preparation of yellow soil paint comprising
ΤI
    yellow soil powder, germanium powder, ion powder,
    zeolite and natural rubber sap
ΙN
    Kim, Jong Pyo; Yang, Seung Ho
PΑ
    Nine Co., Ltd., S. Korea
SO
    Repub. Korean Kongkae Taeho Kongbo, No pp. given
    CODEN: KRXXA7
DT
    Patent
LA
    Korean
FAN.CNT 1
    PATENT NO.
                                                            DATE
                       KIND DATE APPLICATION NO.
     _____
                       ____
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PI

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PRAI KR 2004-55838 20040719 <--

Title crack-resistant paint for interior or exterior construction AB does not have deterioration of properties. The prepn. comprises adding yellow soil powder to pptn. bath to ppt. it; dehydrating and drying it at pptn. bath to prep. a yellow soil pptn. powder; mixing 65-75% yellow soil pptn. powder, 15-25% germanium powder, 5% ion powder and 5% zeolite; and adding natural rubber sap at ratio of 4:6 to the mixt. and mixing them. Preferably natural rubber sap is prepd. by mixing crude liq. and purified water at ratio of 50:50.

ICM C09D001-00 ΙC ICS C09D005-33

42-10 (Coatings, Inks, and Related Products) CC

ST germanium ion zeolite rubber sap yellow soil paint prepn

ΙT Coating materials

> (crack-resistant; prepn. of yellow soil paint comprising yellow soil powder, germanium powder, ion powder, zeolite and natural rubber sap)

ΙT Natural rubber, uses

Zeolites (synthetic), uses

(prepn. of yellow soil paint comprising vellow soil powder, germanium powder, ion powder, zeolite and natural rubber sap)

Paints ΙT

Soils

(yellow; prepn. of yellow soil paint comprising yellow soil powder,

germanium powder, ion powder, zeolite and natural rubber sap)

7439-89-6, Iron, uses 7440-56-4, Germanium, uses ΙT (prepn. of yellow soil paint comprising yellow soil powder, germanium powder, ion powder, zeolite and natural rubber sap)

HCA COPYRIGHT 2008 ACS on STN L31 ANSWER 2 OF 16

145:232691 HCA Full-text AN

Production method of salt water and bay salt with removing or ΤI diminishing harmful component and increasing useful component

Kim, Kyung Hee ΙN

S. Korea PA

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

Korean LA

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE ____ KR 2004064522 A 20040719 KR 2003-2197 PΙ 200301

13

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PRAI KR 2003-2197

20030113 <--

A prodn. method of nontoxic salt water and bay salt is provided, AB which decreases harmful components and increases beneficial components to our health without special equipment. The high quality salt is produced by the following steps of: passing sea water through a filter comprising quartz porphyry (or germanium) gravel, sand and mud, and gathering water; operating a water pump equipped with multistep filters, ozone (or UV) sterilizer, ultrasonicator to remove impurities and bacteria; removing harmful components from sea water by soaking a bag filled with charcoal, Au, Ge, quartz porphyry, etc. into sea water and operating sterilizing machines; flowing purified sea water into an evapn. area and putting the bag into sea water; filtering sea water through fibers made of charcoal, quartz porphyry, microfiber and jade; spraying liq. herbs which are beneficial to human or liq. treated with yellow earth (called Jijangsu) over concd. sea water in the area or spraying sterilized all kinds of liq. over sea water.

ICM C01D003-06 ΙC

CC 49-5 (Industrial Inorganic Chemicals) Section cross-reference(s): 17, 61

Soils ΙT

> (yellow, Jijangsu; prodn. method of salt water and bay salt with removing or diminishing harmful component and increasing useful component)

ΙΤ 7440-56-4, Germanium, uses 7440-57-5, Gold, uses 10028-15-6, Ozone, uses 12601-21-7, Jade (prodn. method of salt water and bay salt with removing or diminishing harmful component and increasing useful component)

L31 ANSWER 3 OF 16 HCA COPYRIGHT 2008 ACS on STN

145:212563 HCA Full-text AN

ΤI Sound insulation wallpaper

Bae, Jae Ho ΙN

Shinyang Tech Co., Ltd., S. Korea PA

Repub. Korean Kongkae Taeho Kongbo, No pp. given SO CODEN: KRXXA7

Patent DT

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	KR 2004070727	А	20040811	KR 2003-6908	200302
					04

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PRAI KR 2003-6908

20030204 <--

AB Sound insulation wallpaper is characterized by being thin, contq. a polyurethane form and a polyethylene form having excellent flexibility, having a protective coating layer preventing moisture from infiltrating and having a functional coating layer comprising The wallpaper is capable of scrubbing off old jade and ceramic. stain easily, radiating far IR ray from the functional coating layer and absorbing noise and vibration. Sound insulation wallpaper comprises nonwoven fabrics constituting a surface and a back; a polyurethane form and a polyethylene form between the nonwoven fabrics; a protective coating layer formed on the surface of the nonwoven fabric; and a functional coating layer comprised of yellow soil, jade, ceramic and germanium and formed on a surface of the protective coating layer. The polyurethane form has a thickness of 1-2.5 mm, and the polyethylene form has a thickness of 0.5-2 mm.

IC ICM D21H027-20 ICS D21H027-30

CC 40-10 (Textiles and Fibers)
Section cross-reference(s): 38

ST nonwoven fabric polyurethane polyethylene sound insulation wallpaper; yellow soil jade ceramic germanium coating sound insulation wallpaper

IT Soils

(yellow, coating layer contg.; nonwoven fabric-based sound insulation wallpaper)

IT 7440-56-4, Germanium, uses 12601-21-7, Jade (coating layer contg.; nonwoven fabric-based sound insulation wallpaper)

- L31 ANSWER 4 OF 16 HCA COPYRIGHT 2008 ACS on STN
- AN 142:284109 HCA Full-text
- TI Method for manufacturing laminated flooring made from yellow earth and laminated flooring made from yellow earth manufactured by manufacturing device
- IN Park, Ju Sung
- PA S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7
- DT Patent
- LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2003076739	A	20030929	KR 2002-15222	200203

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PRAI KR 2002-15222

20020321 <--

A laminated flooring made from yellow earth is provided to be manufd. by mixing a synthetic resin with natural materials such as yellow earth, bio stone, and germanium, thereby implementing damp proof features on the bottom and preventing harmful materials. Many dyeing rubber rollers pass through a yellow earth pap obtained by mixing yellow earth powder, bio stone powder, germanium powder, jade powder, alum powder, edible powder, and sulfur powder. The yellow earth pap passes into pure cotton hemp to dehydrate the pure cotton hemp. yellow earth pure cotton hemp(20) is obtained by passing through a drying room, and is combined with a flooring piece(10). The yellow earth pure cotton hemp(20) is combined by a pure cotton hemp of the flooring piece(10) applied with an adhesive glue obtained by mixing water with edible powder. A yellow earth Korean paper (30) is adhered to the yellow earth pure cotton hemp(20). The adhesive glue is applied to the yellow earth Korean paper (30), and a high-grade Korean paper (40) is adhered to the flooring piece (10). The flooring piece(10) passes through a dryer at 50 to 70 °C, and is dried. A fresh bean oil is sprayed on the dried high-grade Korean paper (40). The high-grade Korean paper (40) is given a final touch with fresh beans crushed in 0.7 to 2mm size.

IC ICM B32B013-14

CC 58-3 (Cement, Concrete, and Related Building Materials)

ST floor tile laminated yellow soil

IT Adhesives

Cannabis

Dyeing

Musa textilis

Paper

(manufg. laminated flooring made from yellow earth and laminated flooring made from yellow earth manufd. by manufg. device)

IT 7440-56-4, Germanium, uses

(manufg. laminated flooring made from yellow earth and laminated flooring made from yellow earth manufd. by manufg. device)

L31 ANSWER 5 OF 16 HCA COPYRIGHT 2008 ACS on STN AN 142:242072 HCA Full-text

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TI Manufacturing method of functional fiber resin composition
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IN An, Jung Ju; Choi, Myung Bu

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

PΙ

•					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
Γ	KR 2003062602	A	20030728	KR 2002-2870	
					200201
					17

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PRAI KR 2002-2870

20020117 <--

AB A manufg. method of functional fiber resin compn. having deodorizing effect is characterized by contg. jade, yellow soil, germanium and charcoal. The functional fiber is useful for bedclothes, a mat and underwear. The resin compn. is obtained by the steps of: prepg. an acrylic resin(solids 40%), fabric resin; synthesizing and dissolving 100 g of jade powder, 100 g of germanium powder, 100 g of yellow soil powder, 100 g of charcoal powder and 100 g of artificial zeolite into 1000 mL of the acrylic resin; dissolving 20 mL of a silver antibacterial agent(solids 20%) into 2000 mL of water; mixing a mixt. with a pigment; and then printing and coating fabric.

IC ICM D06M011-00

CC 40-5 (Textiles and Fibers)

IT Soils

(yellow, coating; manufg. method of functional fiber resin compn.)

IT 7440-56-4, Germanium, uses 12601-21-7, Jade (coating; manufg. method of functional fiber resin compn.)

L31 ANSWER 6 OF 16 HCA COPYRIGHT 2008 ACS on STN

AN 142:224269 HCA Full-text

TI Manufacture of functional expanded vermiculite boards with three-layered structure, high strength, thermal insulation and nonflammability

IN Jo, Sung Kyun

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2003059018	А	20030707	KR 2003-36933	200306

<--

PRAI KR 2003-36933

20030609 <--

AB Provided is a manufg. method of functional expanded vermiculite board of a three-layered structure which has high strength and illumination besides heat insulation, nonflammability by using vermiculite, perlite and white carbon as additives and functional materials (jade, yellow earth). The expanded vermiculite board with a three-layered structure is manufd. by the following steps of: prepg. a compn. for a middle layer by mixing 80-90 wt.% of coarse (5-10 mesh) vermiculite, 10-12 wt.% of fine perlite and 0.1-3 wt.% of white carbon, and a binder; prepg. a compn. for upper and lower layers by mixing 85-90 wt.% of fine (40-80 mesh) vermiculite, 10-15 wt.% of fine perlite and white carbon, and a binder; putting the compn. to be layered; pressing. The functional materials such as yellow earth, jade and germanium are added to the compn. of upper and lower layers according to uses.

- IC ICM C04B014-20
- CC 58-4 (Cement, Concrete, and Related Building Materials)
- ST expanded vermiculite board perlite white carbon yellow earth jade
- IT Soils

(yellow earth; manuf. of functional expanded vermiculite boards with three-layered structure, high strength, thermal insulation and nonflammability)

IT 7440-56-4, Germanium, uses 7631-86-9, White

carbon, uses 12601-21-7, Jade

(manuf. of functional expanded vermiculite boards with three-layered structure, high strength, thermal insulation and nonflammability)

- L31 ANSWER 7 OF 16 HCA COPYRIGHT 2008 ACS on STN
- AN 142:224255 HCA Full-text
- TI Flexible panels for use in building interiors and exteriors
- IN Shin, Seon Ho
- PA Daebo Engineering Co., Ltd., S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7
- DT Patent
- LA Korean
- FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

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PI KR 2002086966

A 2002112

20021121 KR 2001-25966

200105 12

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PRAI KR 2001-25966

20010512 <--

AB Flexible and lightwt. panels, obtained by placing a glass fiber fabric layer between resin plates including inorg. materials, are suitable for attaching to curved walls easily and decrease construction costs. Accordingly, the resultant panels are used as interior and exterior materials in construction field. The flexible and lightwt. panels are produced by the following steps of: (1) mixing 10-40 wt.% of high elastic acrylic emulsion resin or urethane resin for flexibility, 40-80 wt.% of inorg. materials such as yellow earth, quartz porphyry, jade, germanium, etc. for giving thickness and strength to panels, and optionally pigment, dispersant and defoaming agent; (2) spraying the mixt. on a panel-shaped mold and drying; (3) layering glass fiber fabrics on the surface of dried resin; (4) spraying the mixt. obtained from step (1) and drying.

IC ICM C04B016-04

CC 58-4 (Cement, Concrete, and Related Building Materials)

IT 7440-56-4, Germanium, uses 14808-60-7, Quartz (SiO2), uses

(prodn. method of flexible panels for use in building interiors and exteriors)

L31 ANSWER 8 OF 16 HCA COPYRIGHT 2008 ACS on STN

AN 142:224057 HCA Full-text

TI Manufacture of ceramic cooking pots

IN Lee, Ki Young

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡΙ	 KR 2003017722	А	20030304	KR 2001-50707	200108

<--

PRAI KR 2001-50707

20010822 <--

AB A manufg. method of ceramic cooking pots used for stewing, steaming and roasting is provided. The ceramic cooking pots shorten cooking

time, prevent sticking and burning of food, and keep food fresh. The ceramic cooking pots are manufd. by the following steps of: mixing 40 wt.% of clay 30 wt.% of talc and 30 wt.% of white clay with water; dehydrating to be a mixt. contg. 20-25% of water; vacuum compressing; forming the mixt. into shapes of pot and pan, and deforming; drying naturally to be 10-15% of water content; sintering at 900°-950° for 5-6 h; applying glazes comprising 20 wt.% of Ge, 10 wt.% of yellow earth, 10 wt.% of sand, 15 wt.% of feldspar, 5 wt.% of limestone, 20 wt.% of leaf mold and 5 wt.% of oak charcoal; sintering at 1200°-1300° for 10 h.

- IC ICM C04B033-24
- CC 57-4 (Ceramics)
- L31 ANSWER 9 OF 16 HCA COPYRIGHT 2008 ACS on STN
- AN 142:218448 HCA Full-text
- TI Manufacturing of organic mineral fertilizer by mixing org. waste sludge and mineral powders
- IN Kim, Kyu Won
- PA S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7
- DT Patent
- LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2003067442	A	20030814	KR 2002-15498	200203

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PRAI KR 2002-15498

20020321 <--

AB Provided is a manufg. method of org. mineral fertilizer which is used for top soil and compost, prevents pollution and improves acidified soil by mixing org. waste sludge and mineral powders unlike conventional fermented fertilizer. The org. mineral fertilizer is manufd. by the following steps of: (i) mixing org. waste and sludge, such as food waste, agricultural waste, feces and urine, etc., with polymn. catalysts to be 70% of moisture content; (ii) adding CaO to be a mixt./CaO ratio of 1: 0.11-0.2 and mixing at 60-150°C for 5-10 min to be a moisture content less than 40%; (iii) adding silicate minerals (zeolite, bentonite and magnesite), pure soil, yellow earth, kaolin and germanium to be a wt. ratio of mixt. of step (ii) to added

powder of 1: 0.15-0.2; (iv) mixing for 10 min to be 30% of moisture content; (v) granulating and packing.

ICM C05F017-00 IC

CC 19-6 (Fertilizers, Soils, and Plant Nutrition) Section cross-reference(s): 60

ΙT Soils

> (yellow; manufg. of org. mineral fertilizer by mixing org, waste sludge and mineral powders)

1305-78-8, Calcium oxide (CaO), biological studies 7440-56-4 ΙT , Germanium, biological studies 13717-00-5, Magnesite (manufg. of org. mineral fertilizer by mixing org. waste sludge and mineral powders)

HCA COPYRIGHT 2008 ACS on STN L31 ANSWER 10 OF 16

142:203171 HCA Full-text ΑN

Manufacture of noninflammable interior and exterior panels using TIvermiculite

Kim, Hoan Seng IN

PAS. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LAKorean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2003025443	A	20030329	KR 2001-58420	200109

20

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PRAI KR 2001-58420

20010920 <--

AB Provided is a method for manufg. interior and exterior panels, and partition plates having lightwt. and noninflammability by using foamed vermiculite as main materials. The exterior panels are manufd. by filling a mixt. of foamed vermiculite and inorg. or org. binder to Fe or stainless steel plates, where wire screen, glass fiber, etc. are mixed with the mixt. for imparting strength to panels. The interior panels emitting far IR ray contain yellow earth, Ge and charcoal besides panel materials comprising foamed vermiculite and a binder. The foamed vermiculite particles are produced by crushing vermiculite into a proper size, sintering at 800-1200° to form pores, and cooling. The binders are gypsum, cement and water glass.

- ICM C04B020-06 ΙC
- CC 58-4 (Cement, Concrete, and Related Building Materials)
- ΙΤ Soils

(yellow; manuf. of noninflammable interior and exterior panels using vermiculite and)

TT 7439-89-6, Iron, uses 7440-56-4, Germanium, uses 12597-68-1, Stainless steel, uses (manof. of noninflammable interior and exterior panels

using vermiculite and)

L31 ANSWER 11 OF 16 HCA COPYRIGHT 2008 ACS on STN

AN 142:203162 HCA Full-text

TI Manufacture of incombustible interior and exterior panels by heating and hardening with high frequency or infrared rays

IN Oh, Pan Won

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	KR 2003032601	A	20030426	KR 2001-64499	
					200110
					1.8
					<u> </u>

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PRAI KR 2001-64499

20011018 <--

AB Provided is a manufg. method of incombustible interior and exterior panels by hardening and firing raw materials such as vermiculite and perlite. The manufg. method of incombustible exterior panels comprises the steps of; crushing raw materials such as vermiculite and perlite and foaming ground raw materials to get lightwt. powder particles; mixing powders with inorg. or org. binders; forming the mixt. into panels; pouring CO2 gas into formed panels for hardening; drying and firing hardened panels with high frequency and IR rays. Also, yellow soil, ceramics, charcoal and Ge are added to the above raw materials in mixing for manuf. of interior panels.

IC ICM C04B020-06

CC 58-4 (Cement, Concrete, and Related Building Materials)

IT Soils

(yellow; manuf. of incombustible interior and exterior panels by heating and hardening with high frequency or IR rays from raw materials contq. vermiculite and perlite and)

IT 7440-56-4, Germanium, uses

(manuf. of incombustible interior and exterior panels by heating and hardening with high frequency or IR rays from raw materials contg. vermiculite and perlite and)

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L31 ANSWER 12 OF 16 HCA COPYRIGHT 2008 ACS on STN
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AN 142:178127 HCA Full-text

TI Polyurethane foam and preparation method thereof

IN Lee, Yong Gu

PA Hanbee Industries, Inc., S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡΙ	KR 2001112833	A	20011222	KR 2001-24105	200105 03

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PRAI KR 2000-33035 A 20000615 <--

AB A polyurethane foam and its prepn. method are provided, to allow it to radiate the far IR ray by using jade and/or yellow soil, thereby improving insulation, antibacterial activity, moisture control effect and deodorization. The method comprises the steps of mixing 0.1-50 parts by wt. of jade particle with a size of 300-1,000 mesh, 100 parts by wt. of a polyether-based or polyester-based polyol, and optionally 1-10 parts by wt. of yellow soil; mixing the mixt. and one or two components selected from the group consisting of isocyanate, a foaming agent, a surfactant, a catalyst, a metal catalyst and crosslinking agent, and injecting air into the mixt. with a speed of 2,000-2,500 cc/min; foaming the one ejected from the above mixing process by using carbon dioxide generated by the reaction of water and isocyanate; and maturing the foam formed the foaming process to cure it completely. Instead of jade, germanium, hell stone, tourmaline or their mixts. can be used.

IC ICM C08J009-08

CC 38-3 (Plastics Fabrication and Uses)

IT Soils

(yellow; manuf. of polyurethane foams)

IT 7440-56-4, Germanium, uses 12601-21-7, Jade (manuf. of polyurethane foams)

- L31 ANSWER 13 OF 16 HCA COPYRIGHT 2008 ACS on STN
- AN 142:175661 HCA Full-text
- TI Making method of soy sauce and toenjang (fermented soybean paste) containing nephrite jade
- IN Hwang, Kyu Soon; Lee, Hag Ji
- PA Dong Yeu Dang Co., Ltd., S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT Patent LA Korean FAN.CNT 1

,					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	KR 2001017785	А	20010305	KR 1999-33457	
					199908
					0.9
					09

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PRAI KR 1999-33457

19990809 <--

A method of prepg. soy sauce and toenjang contg. powd. nephrite jade AΒ is provided to improve the storage life with maintaining the original nutrients and flavor of the sauce. The method is characterized by the following steps of: (i) boiling soybeans with 3% of the total wt. of an additive composed of 40% of powd. nephrite jade, 15% of kaolinite or yellow soil ceramic, and 15% of elvan, zeolite and germanium; (ii) making a drying room for growing Bacillus subtilis and Aspergillus comprising the floor and the wall made of yellow soils, hard charcoal and salt laid under the floor and pieces of nephrite jade and hard charcoals arranged in the room; (iii) drying boiled and mashed soybean lumps in the room for 3 days, fermenting at 35°C for 7 days and ripening at 15°C for 30 days; (iv) getting processed salt water by adding 4 times of water to natural salt and removing brine from the water after leaving for a day; (v) adding a mixt. of 40% of powd. nephrite jade, 15% of kaolinite or yellow soil ceramic, and 15% of elvan, zeolite and germanium to the refined salt water; (vi) putting the resulting salt water and the well fermented boiled soybean lumps in a ratio of 1:1 in a jar and ripening at more than 15°C for ≥60 days; (vii) getting soy sauce and toenjang from the ripened mixt.; and then (viii) packing the produced soy sauce and toenjang in a container of which an inner stopper or cap or sticker attached around the container contains powd. nephrite jade inside. Far IR rays and an anion irradiated from the nephrite jade are resonant with far IR rays and an anion radiated from the soy sauce or toenjang and prevent denaturalization and deterioration of the contents kept for a long time.

- IC ICM A23L001-202
- CC 17-6 (Food and Feed Chemistry)
- IT 1318-74-7, Kaolinite, biological studies 7440-56-4,

Germanium, biological studies

(making method of soy sauce and toenjang fermented soybean paste contq. nephrite jade and)

L31 ANSWER 14 OF 16 HCA COPYRIGHT 2008 ACS on STN AN 142:160902 HCA Full-text

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Far IR-emitting drink bottles and their manufacture
TΙ
IN
    Kang, Kyung Pyo
    S. Korea
PA
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
    CODEN: KRXXA7
DT
    Patent
LA
    Korean
FAN.CNT 1
    PATENT NO.
                KIND DATE APPLICATION NO.
                                                               DATE
     _____
                       ____
PΙ
    KR 2002061427 A 20020724 KR 2001-2588
                                                                200101
                                                                17
                                               <--
PRAI KR 2001-2588
                              20010117 <--
AB
     Drink bottles including jade, quartz porphyry, yellow earth,
     charcoal, etc. are provided, which emits far IR ray, improves
     immunity of our body, and increases dissolved oxygen of bottled
     drinks. Drink bottles, such as glass and PET bottles, emitting far
     IR ray are produced by mixing 93-97% of conventional bottle compn.
     with 3-7 wt.% of at least one material selected from the group
     consisting of jade, quartz porphyry, yellow earth, bio-ceramics,
     germanium and charcoal. Also, far IR emitting alumina cans are
     produced by coating the surface of cans with a coater made of 93-97%
     of lacquer and 3-7 wt.% of the above material emitting far IR ray.
    ICM C03C014-00
ΙC
    57-1 (Ceramics)
CC
    1344-28-1, Alumina, processes 7440-56-4, Germanium
ΙT
     , processes 25038-59-9, processes
        (manuf, of far IR-emitting drink bottles)
L31 ANSWER 15 OF 16 HCA COPYRIGHT 2008 ACS on STN
    142:136912 HCA Full-text
AN
ΤI
    Manufacturing method of fire retardant wall-paper using natural
    materials
    Park, Mi Ae
ΙN
PA
    Wallfin Co., Ltd., S. Korea
    Repub. Korean Kongkae Taeho Kongbo, No pp. given
SO
    CODEN: KRXXA7
    Patent
DT
LA
    Korean
FAN.CNT 1
    PATENT NO.
                      KIND DATE APPLICATION NO.
                                                               DATE
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A 20020131 KR 2000-42108

PΙ

KR 2002008556

PRAI KR 2000-42108

20000721 <--

A manufq. method of a fire retardant wall-paper using natural AB materials is provided, which is characterized by increasing water resistance and abrasion resistance, radiating far IR ray, having no environmental pollution and having recycling effect. The fire retardant wall-paper is obtained by a process contq. the steps of: mixing flame retardant(fluorine type, chlorine type, antimonial type, phosphate type and fluoro zirconium type) with EVA, urethane type and fluorine type resin contg. PE, EVA and biodegradable surfactant; coating the top side or the bottom side of an inverted paper with the mixt.; infiltrating and drying wood flour, hull flour, hay powder, dry aquatic plant powder, coffee bean powder, fallen leaves, dried petal, mugwort powder and charcoal powder into the flame retardant, followed by bonding and laminating; bonding and laminating noncombustible material such as silica sand, vermiculite, diatom earth and volcanic rock, followed by coating the top coating layer with a mixt. mixed with one or at least two selected from urethane type, wax resin and EVA contq. acryl type, fluorine type PE, EVA and surfactant; and adding far IR ray radiating material such as antibacterial agent, yellow soil, illite, jade, germanium, charcoal powder, wheat shape spotted stone and ceramic to an increasing layer of water resistance and abrasion resistance, an adhesive layer and the top coating layer.

IC ICM D21H027-20

CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)

IT Soils

(yellow; manuf. of fire-retardant wallpaper using natural materials)

IT 1318-00-9, Vermiculite 7440-36-0D, Antimony, compds. 7440-56-4, Germanium, uses 7440-67-7D, Zirconium, fluoro compds. 7631-86-9, Silica, uses 9002-88-4, Polyethylene 12173-60-3, Illite 12601-21-7, Jade 24937-78-8, Ethylene-vinyl acetate copolymer

(manuf. of fire-retardant wallpaper using natural
materials)

- L31 ANSWER 16 OF 16 HCA COPYRIGHT 2008 ACS on STN
- AN 136:342059 HCA Full-text
- TI Process for producing of functional fabric with excellent functionality, washing ability, and lubricant surface
- IN Jeong, Byung Min
- PA S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent LA Korean

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE
-----PI KR 2000031854 A 20000605 KR 1998-48087

199811

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PRAI KR 1998-48087

19981110 <--

The title fabric is produced by using yellow earth, bioceramic and germanium. The process contains following the steps of: mixing 40-67% by wt. of functional material consisting of leoss, bioceramic and germanium with 3-30% by wt. of acrylic rubber; adding a solvent in the soln. to mix; optionally adding an arom. in the soln.; coating the added mixt. on the surface of fabric; drying the coated material at 140° C for 3min; and then drying the coated material at 120-140° C for 1 min. The functional fabric is consisted of 40-67% by wt. of functional material having leoss, bioceramic and germanium, 30-57% by wt. of polyester and 3-30% by wt. of acrylic rubber. The polyester is used as gel phase or liq. phase. The usable fabric is polyester, polyethylene, polypropylene, acrylonitrile-butadiene-styrene, polystyrene, polycarbonate and polyamide.

- IC ICM D06M011-83
- CC 40-2 (Textiles and Fibers)
- ST functional fabric prodn; yellow earth functional fabric prodn; bioceramic functional fabric prodn; germanium functional fabric prodn
- IT Soils

(yellow earth, fabric contg.; process for producing of functional fabric with excellent functionality, washing ability, and lubricant surface)

IT 7440-56-4, Germanium, uses

(fabric contg.; process for producing of functional fabric with excellent functionality, washing ability, and lubricant surface)

=> D L32 1-16 BIB ABS HITIND

- L32 ANSWER 1 OF 16 HCA COPYRIGHT 2008 ACS on STN
- AN 146:297787 HCA Full-text
- TI Yellow soil paint composition for construction material
- IN Yoon, Jae Hwa; Yoon, Ji Ho
- PA S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7 DT Patent LA Korean FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE ____ ______ KR 2005098418 A 20051012 KR 2004-23637 PΙ 200404 07 <--20040407 <--PRAI KR 2004-23637 Provided is a yellow soil paint compn. for a construction material which has an antibacterial effect, a deodorizing effect and a humidity controlling effect and is improved in adhesive strength. Title paint compn., showing good adhesion and antibacterial, humidity-controlling and deodoring ability, comprises 100 parts yellow soil (10), 0.2-5 parts a water-sol. cellulose deriv. (20), 1-7.5 parts pulp (30), and 80-150 parts H20 with, and the (10), (20), and (30) three components forming a network structure. Preferably, the above the compn. showed a viscosity of 15,000-40,000 cP-s at 20°. Preferably, the water-sol. cellulose deriv. was formed by introducing a water-sol. substituent into cellulose. Optionally, the compn. further contained charcoal, elvan, Ge, jade and salt powder. ICM C09D101-00 IC CC 42-10 (Coatings, Inks, and Related Products) ST yellow soil pulp water sol cellulose deriv paint construction Coating materials ΙT (bactericidal; pulp- and water-sol. cellulose deriv.-contg. yellow soil paint compns. for construction materials) ΙT Deodorants (coatings; pulp- and water-sol. cellulose deriv.-contg. yellow soil paint compns. for construction materials) Cellulose pulp ΙT Construction materials (pulp- and water-sol. cellulose deriv.-contg. yellow soil paint compns. for construction materials) Charcoal ΙT Elvanite (pulp- and water-sol. cellulose deriv.-contg. yellow soil paint compns. for construction

materials)

Waters

ΙT

(saline; pulp- and water-sol. cellulose deriv.-contg. yellow soil paint compns. for construction materials) Soils ΙT (vellow; pulp- and water-sol. cellulose deriv.-contg. yellow soil paint compns. for construction materials) 7440-56-4, Germanium, uses 9004-34-6D, Cellulose, derivs. ΙT 12601-21-7, Jade (pulp- and water-sol. cellulose deriv.-contg. yellow soil paint compns. for construction materials) ANSWER 2 OF 16 HCA COPYRIGHT 2008 ACS on STN L32 146:9393 HCA Full-text AN Coating materials for environment friendly wallpapers with good TΙ texture and processability Im, Chul Am; Song, Hyeon Ho ΙN PAKysys Corporation, S. Korea Repub. Korean Kongkae Taeho Kongbo, No pp. given SO CODEN: KRXXA7 Patent DTLA Korean FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE PΙ KR 2005042925 A 20050511 KR 2003-77584 200311 04 <--PRAI KR 2003-77584 20031104 <--AB Title coating materials comprise a liq. inorg. filler, a binder comprising an acrylic resin and a styrene-butadiene latex, an aq. blowing agent selected from isobutane, n-pentane and their mixt., a pulp powder, an adhesion inhibitor, and/or a far IR radiating material selected from jade, yellow soil , illite, elvan, germanium, charcoal powder and their mixt. ΙC ICM C09D001-12 CC 42-10 (Coatings, Inks, and Related Products) Section cross-reference(s): 43 ΙT Soils (vellow, far IR radiating material; coating materials for environment friendly wallpapers with good texture and processability) 7440-56-4, Germanium, uses 12173-60-3, Illite ΙT

12601-21-7, Jade

(far IR radiating material; coating materials for environment friendly wallpapers with good texture and processability)

L32 ANSWER 3 OF 16 HCA COPYRIGHT 2008 ACS on STN

AN 145:398574 HCA Full-text

TI Multifunctional polyethylene sheet adding natural inorganic powder having far-infrared ray and negative ion radiation, antibacterial, deodorizing and humidity adjusting function and production process thereof

IN Lee, Kung Yong

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	 KR 2005027869	А	20050321	KR 2003-64263	
	1111 200002 7009	2.1	20000021	1111 2003 01203	200309
					16

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PRAI KR 2003-64263

20030916 <--

AB Provided is a multifunctional polyethylene sheet adding natural inorg. powder which includes natural inorg. powders harmless to human body, therefore it effectively controls the inhabitation of mold or harmful bacteria in a humid area. The prodn. process of the multifunctional polyethylene sheet adding natural inorg. powder comprises the steps of: (i) mixing yellow soil, biostone, jade, charcoal, kaolin, germanium and mica with polyethylene and heating the mixt.; (ii) mixing the mixt. with liquefied petroleum gas or butane gas as a foaming agent and monoglyceride as a shrinking preventer; (iii) cooling the mixt. to keep temp. of a thermometer at 103-107°C and start extruding normally; and (iv) cooling the extrude sheet by a ventilator and cutting the sheet.

IC ICM C08J005-18

CC 38-3 (Plastics Fabrication and Uses)

IT Soils

(yellow; multifunctional polyethylene sheet adding natural inorg. powder having far-IR ray and neg. ion radiation, antibacterial, deodorizing and humidity adjusting function and prodn. process thereof)

IT 7440-56-4, Germanium, uses 12601-21-7, Jade (multifunctional polyethylene sheet adding natural inorg. powder having far-IR ray and neg. ion radiation, antibacterial, deodorizing and humidity adjusting function and prodn. process

thereof)

L32 ANSWER 4 OF 16 HCA COPYRIGHT 2008 ACS on STN

AN 145:250853 HCA Full-text

TI Compositions of yellow soil and charcoal for plywood and wallpaper for controlling humidity of rooms and removing smell of mold, and preparation method thereof

IN Lee, Sang Chul

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

PΙ

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
Ι	KR 2004083308	A	20041001	KR 2003-17922	200303

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PRAI KR 2003-17922

20030321 <--

AB The compns. can control the humidity of rooms naturally, sterilize bacteria, remove the smell of mold, screen electromagnetic waves, emit far IR rays, and generate abundant oxygen. The compns. are produced by grinding each 20-40% of yellow soil, 20-40% of charcoal powder, 10-20% of elvan, 10-30% of ceramics, 10-20% of zeolite, and 10-20% of germanium and dilg. 10-20% of a CMC adhesive; adding water into the compns. in the ratio of 6:4 and aging for .apprx.1-24 h; and applying the compns. on one side of a plywood, a paper, and a fiber and then drying at 25-40°.

IC ICM C09D001-00

CC 42-10 (Coatings, Inks, and Related Products)

ST yellow soil charcoal coating plywood wallpaper

IT Ceramics

(coating compns. contg. yellow soil and charcoal for plywood and wallpaper for controlling humidity of rooms and removing smell of mold)

IT Charcoal

Elvanite

Zeolites (synthetic), uses

(coating compns. contg. ${\tt yellow}$ soil and

charcoal for plywood and wallpaper for controlling humidity of rooms and removing smell of mold)

IT Wood boards

(plywood; coating compns. contg. yellow soil and charcoal for plywood and wallpaper for controlling humidity

of rooms and removing smell of mold) ΙT Paper (wallpaper; coating compns. contg. yellow soil and charcoal for plywood and wallpaper for controlling humidity of rooms and removing smell of mold) Coating materials ΙT (water-thinned; coating compns. contg. yellow soil and charcoal for plywood and wallpaper for controlling humidity of rooms and removing smell of mold) Soils ΙT (yellow; coating compns. contq. yellow soil and charcoal for plywood and wallpaper for controlling humidity of rooms and removing smell of mold) 7440-56-4, Germanium, uses 9004-32-4, CMC ΙT (coating compns. contg. yellow soil and charcoal for plywood and wallpaper for controlling humidity of rooms and removing smell of mold) L32 ANSWER 5 OF 16 HCA COPYRIGHT 2008 ACS on STN AN 145:250299 HCA Full-text Yellow soil-charcoal adhesive compositions for ΤI wall papers ΙN Lee, Sang Chul S. Korea PASO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7 Patent DT LA Korean FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE PΙ KR 2004087723 A 20041015 KR 2003-21765 200304 07

20030407 <--

Title adhesives preventing mold, bacteria, ticks, and cockroaches, controlling humidity naturally, shielding electromagnetic waves, and emitting far IR rays comprise (A) a compn. contg. yellow soil 20-40, charcoal powder 20-40, elvan 10-20, ceramics 10-20, zeolite 10-20, and germanium 10-20%, (B) flour 70, and (C) water 40-60 parts (based on 100 parts A + B).

IC ICM C09J103-00

PRAI KR 2003-21765

- CC 38-3 (Plastics Fabrication and Uses)
- ST yellow soil charcoal adhesive compn wall paper; charcoal yellow soil elvan ceramic zeolite

```
germanium flour compn
ΙT
     Adhesives
     Ceramics
     Wheat flour
        (vellow soil-charcoal adhesive compns. for
        wall papers)
     Charcoal
ΙΤ
     Elvanite
     Zeolites (synthetic), uses
        (yellow soil-charcoal adhesive compns. for
        wall papers)
ΙT
     Soils
        (yellow; yellow soil-charcoal
        adhesive compns. for wall papers)
     7440-56-4, Germanium, uses
ΙT
        (yellow soil-charcoal adhesive compns. for
        wall papers)
L32
     ANSWER 6 OF 16 HCA COPYRIGHT 2008 ACS on STN
AN
     145:88241 HCA Full-text
     Production method for improved earth brick
ΤI
     Kim, Jong Hak; Kim, Sang Gil
ΙN
PA
     Kim, Hye Sook, S. Korea
     Repub. Korean Kongkae Taeho Kongbo, No pp. given
SO
     CODEN: KRXXA7
DT
    Patent
LA
     Korean
FAN.CNT 1
                       KIND DATE
     PATENT NO.
                                                                  DATE
                                       APPLICATION NO.
PΙ
    KR 2004004806 A 20040116 KR 2002-38850
                                                                   200207
                                                                   05
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PRAI KR 2002-38850

20020705 <--

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AB Provided is a prodn. method of improved earth brick giving beneficial effects to human body by using earth, hardener comprising cement, gypsum and lime, and additives such as bioceramics, charcoal, wormwood, etc. The earth brick is produced by: prepg. an adhesive mixt. including an acrylic binder and water in a 1st mixer, mixing 100 wt.parts of earth contg. clay, kaolin, yellow earth and polishing sand, 40-600 wt.parts of stone powder, 60-1000 wt.parts of sand, and one or more of 10-100 wt.parts of lime, 20-500 wt.parts of cement and 10-150 wt.parts of gypsum in a second mixer, putting adhesive and mixt. obtained from the step 1 and 2, resp., in a 3rd mixer, and adding one or more of wormwood, bioceramics, jade, elvan, germanium,

charcoal and aroms., wherein each amt. of additives is 0.03-10 wt.parts, injection molding and pressing under 30-50 kg/m².

IC ICM C04B014-10

CC 58-4 (Cement, Concrete, and Related Building Materials) Section cross-reference(s): 57, 60, 63

IT 7440-56-4, Germanium, properties 12601-21-7, Jade (method for manufg. of improved earth brick)

L32 ANSWER 7 OF 16 HCA COPYRIGHT 2008 ACS on STN

AN 142:279159 HCA Full-text

TI Method for producing pickle

IN Hur, Jeom Dul

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	 KR 2003094896	A	20031218	KR 2002-32236	
					200206

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PRAI KR 2002-32236

20020610 <--

AB A method for producing pickle is provided, thereby preserving the freshness of radish pickles for a long time without using an antiseptic. The method comprises the steps of: mixing 350g of germanium powder, 650g of yellow soil powder, 300g of a lump of charcoal having the length of 5 cm or less and 18 L of water; inserting the mixt. into a pottery; sealing the pottery and maturing it at room temp. for 3 to 4 days in the shade; filtering the matured mixt. with a net; and collecting the filtrate.

IC ICM A23L001-218

CC 17-10 (Food and Feed Chemistry)

IT Soils

(yellow; radish pickle prodn.)

IT 7440-56-4, Germanium, biological studies (radish pickle prodn.)

- L32 ANSWER 8 OF 16 HCA COPYRIGHT 2008 ACS on STN
- AN 142:265514 HCA Full-text
- TI Cement additive composition for mortar and method for preparation
- IN Chun, Young Gun; Han, Jong Hee
- PA S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT Patent

Korean LA

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2002034585	А	20020509	KR 2000-64984	200011

02

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PRAI KR 2000-64984

20001102 <--

An additive added to cement mortar including tea tree oil and AΒ chitosan is provided, which gives a fragrance, sterilization, insect prevention and waterproofing. The method for prepn. of cement additive compn. includes: mixing porous materials, e.g., zeolite 0-20 and quartz porphyry 0-20 wt.%, with 2-7 wt.% of tea tree oil, 2-7 wt.% of chitosan soln., adding yellow earth, diatomite, garnet, germanium and/or Fe-free sand. The resulting additive is used by mixing with cement in a ratio of 0.3:1.

ICM C04B024-00 ΙC

58-3 (Cement, Concrete, and Related Building Materials) CC Section cross-reference(s): 11, 53, 57

ΙT Cement

Concrete modifiers

Mortar

Sterilization and Disinfection

Waterproofing

(cement additive compn. for mortar and method for prepn.)

ΙT 7440-56-4, Germanium, processes

(cement additive compn. for mortar and method for prepn.)

L32 ANSWER 9 OF 16 HCA COPYRIGHT 2008 ACS on STN

142:224271 HCA Full-text AN

Manufacture of yellow earth-charcoal blocks ΤI using massive lumps of yellow earth and charcoal as raw materials

ΙN Oh, Young Sun; Sim, Wo Hyong

PΑ S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

Korean LA

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE _____ ____

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PRAI KR 2003-22546

PI

20030410 <--

AB A manufq. method of yellow earth-charcoal blocks is provided, which is characterized by using massive lumps (not powders) of yellow earth and charcoal as raw materials. Accordingly, the charcoal lumps enable to keep the pore structure of charcoal, resulting in deodorization and dehumidification. The yellow earth-charcoal blocks are manufd. by the following steps of: prepg. yellow earth lumps by mixing 5-30 wt.% of germanium powder, 70-95 wt.% of yellow earth powder, and optionally 0.5-5 wt.% of silver for sterilization, adding water, and drying; putting massive lumps of yellow earth and charcoal into a mold, and putting foamed materials like sponge to fill the space between yellow earth and charcoal lumps; forming; and demolding. Also, the sheet-shaped nets made of plastics, metals, etc. are attached to the outer sides of the block for preventing yellow earth and charcoal powders from blowing.

ICM C04B033-04 IC

58-4 (Cement, Concrete, and Related Building Materials) CC Section cross-reference(s): 57

ST yellow earth charcoal block massive lump raw material

Construction materials ΙT

> (blocks; manuf. of yellow earth-charcoal blocks using massive lumps of yellow earth and charcoal as raw materials)

Air conditioning ΙT

> (dehumidification; manuf. of yellow earth -charcoal blocks using massive lumps of yellow earth and charcoal as raw materials)

ΙT Deodorization

Pore structure

Raw materials

(manuf. of yellow earth-charcoal blocks using massive lumps of yellow earth and charcoal as raw materials)

ΙΤ Charcoal

> (manuf. of yellow earth-charcoal blocks using massive lumps of yellow earth and charcoal as raw materials)

Soils ΙT

> (yellow earth; manuf. of yellow earth-charcoal blocks using massive lumps of yellow earth and charcoal as raw materials)

7440-22-4, Silver, uses 7440-56-4, Germanium, uses ΙT

(in blocks; manuf. of yellow earth-charcoal blocks using massive lumps of yellow earth and charcoal as raw materials)

L32 ANSWER 10 OF 16 HCA COPYRIGHT 2008 ACS on STN

AN 142:224060 HCA Full-text

TI Odor-generating ceramic tiles impregnated with mugwort extracts and IR materials

IN Park, Kwang Jin

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2002094857	А	20021218	KR 2001-34511	200106 12

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PRAI KR 2001-34511

20010612 <--

AB Ceramic compacts(tile, mat, etc.) generating mugwort or pine odors lastly are provided by impregnating ceramic compacts with mugwort or pine exts. The resultant compacts, applied to steam bath rooms, pillows and mats, emit far IR rays. The clay compacts generating natural odors are manufd. by the following steps: (a) mixing 30-60% of the raw clay, 40-70% of far IR materials such as quartz porphyry, yellow earth, germanium and jade; (b) forming and drying over 10 h; (c) sintering at 600-1000° for 4-7 h; (d) impregnating clay compacts with mugwort (or pine) ext. by heating the compacts in mugwort (or pine) ext. for 3-5 h.

IC ICM C04B033-00

CC 57-5 (Ceramics)

Section cross-reference(s): 43, 58, 62

IT 7440-56-4, Germanium, uses 12601-21-7, Jade
(IR material; odor-generating ceramic tiles impregnated with mugwort exts. and IR materials)

- L32 ANSWER 11 OF 16 HCA COPYRIGHT 2008 ACS on STN
- AN 142:120600 HCA Full-text
- TI Zeolite composition for diaper and sanitary pad
- IN Son, Du Ik
- PA S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2001054063	A	20010702	KR 1999-54688	
					199912

03

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PRAI KR 1999-54688

19991203 <--

AB Provided is a zeolite compn. for diapers and sanitary pads, which is excellent in IR-radiating ability, deodorizing ability, and absorbability, and is non-hazard to human bodies and dose not pollute environment. The zeolite compn. is produced by heat -treating a mixt. comprising powdery zeolite as a main component and 0.5-3.0% (based on the zeolite) of at least one selected from the group consisting of unslaked lime or slaked lime at 300-700°. Addnl., the zeolite compn. contains less than 30% of at least one aluminum silicate mineral selected from the group consisting of phyllite, elvan, yellow soil, jade, and germanium stone, and 1-2% of an inorg. metal antimicrobial agent.

IC ICM A61F013-15

CC 63-7 (Pharmaceuticals)

ΙT Soils

(yellow; zeolite compn. for diaper and sanitary pad)

1305-62-0, Slaked lime, biological studies 1335-30-4, Aluminum ΙT silicate 7440-56-4, Germanium, biological studies 12601-21-7, Jade

(zeolite compn. for diaper and sanitary pad)

L32 ANSWER 12 OF 16 HCA COPYRIGHT 2008 ACS on STN

ΑN 142:99029 HCA Full-text

Porous plates and multiple plates using porous plates ΤI

Choi, Yeong Mo ΙN

PAChoi, Hyo Sun, S. Korea

Repub. Korean Kongkae Taeho Kongbo, No pp. given SO

CODEN: KRXXA7

DTPatent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	KR 2001070624	A	20010727	KR 2001-29425	

200105

20010528 <--

Porous plates using glass wool and silicate as raw materials are AB presented for use in construction fields (floors, walls and ceilings) having heat- and flame-resistance and sound insulating. The plates are lightwt. and high strength. The porous plates comprise glass 60-70 wt.%, silicate 15-25 wt.% and 5-25 wt.% of jade, charcoal, Elvan, germanium and/or biotite and are formed at 350-450° under far-IR The multiple porous plate contains: an outer plate bound to the upper side of a first porous plate, an inner plate, being under the outer plate, having a frame and a functional layer which comprises a first charcoal layer composed of charcoal or activated carbon, a yellow earth layer, a second charcoal layer and a mixt. of glass wool and silicate, a second porous plate bound to a lower part of the inner plate and a third porous plate under the lower part of the second charcoal layer.

IC ICM C04B014-42

CC 58-4 (Cement, Concrete, and Related Building Materials)
Section cross-reference(s): 57

ST porous plate multilayer floor heat flame resistance sound insulating

IT Elvanite

(Elvan; porous multilayer heat- and flame- resistant and sound insulting plates for floors and walls and ceilings)

IT Sound insulators

(cellular, thermally insulating; porous multilayer heat— and flame— resistant and sound insulting plates for floors and walls and ceilings)

IT Thermal insulators

(lightwt.; porous multilayer heat- and flame- resistant and sound insulting plates for floors and walls and ceilings)

IT Ceilings

Composites

Fire-resistant materials

Floors

Lightweight materials

Mineral wool

Walls (construction)

(porous multilayer heat- and flame- resistant and sound insulting plates for floors and walls and ceilings)

IT Charcoal

Clays, processes

Silicate minerals

(porous multilayer heat- and flame- resistant and sound insulting plates for floors and walls and ceilings)

IT Thermal insulation foams

Thermal insulators

(sound-insulating; porous multilayer heat- and flameresistant and sound insulting plates for floors and walls and ceilings)

IT Lightweight materials

(thermal insulators; porous multilayer heatand flame- resistant and sound insulting plates for floors and walls and ceilings)

IT Sound insulators

(thermally insulating; porous multilayer heat
- and flame- resistant and sound insulting plates for floors and
walls and ceilings)

IT Glass fibers, uses

(wool; porous multilayer heat- and flame- resistant and sound insulting plates for floors and walls and ceilings)

IT 1302-27-8, Biotite 7440-44-0, Carbon, processes 7440-56-4, Germanium, processes 12601-21-7, Jade (porous multilayer heat- and flame- resistant and sound insulting plates for floors and walls and ceilings)

L32 ANSWER 13 OF 16 HCA COPYRIGHT 2008 ACS on STN

AN 138:183543 HCA Full-text

TI Functional aquarium water and a preparation method thereof

IN Kim, Jung-Sook

PA Kostarworld Co., Ltd, S. Korea

SO U.S., 11 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6528062	В1	20030304	US 2001-883405	200106

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PRAI KR 2001-26000 A 20010512 <--

AB Aquarium water and a prepn. method thereof, including a fermented soln. of a mixt. of ext. from leaves of a ginkgo tree, ext. from ganoderma, ext. from bark of a chestnut tree, ext. from acorns, ext. from leaves of an evergreen oak tree, ext. from bamboo, ext. from leaves of a persimmon tree, ext. from leaves of a pine tree, water—sol. chitosan powder extd. from crab shells, barely natural stone powder, bamboo salt, potato starch, and distd. water. Fermn. is by adding yeast, and org. germanium, mineral component extd. from yellow soil, and ext. from combustion of an oak tree are added. The soln. is then fermented again and refined in a lig. state.

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ΙC
    ICM A61K035-84
    ICS A61K035-78; A61K035-64; A61K033-24
INCL 424195160; 424725000; 424725100; 424750000; 424752000; 424769000;
    424770000; 424538000; 424771000; 424617000
    9-16 (Biochemical Methods)
CC
    Section cross-reference(s): 11, 16, 63
ST
    aquarium water prepn
ΙT
    Aquariums
    Bamboo
    Diospyros
    Extraction
    Ganoderma
    Ginkgo
    Shell
    Solanum tuberosum
    Yeast
        (functional aquarium water and its prepn.)
    7440-56-4, Germanium, biological studies 9005-25-8,
ΙT
    Starch, biological studies 9012-76-4, Chitosan
        (functional aquarium water and its prepn.)
    7732-18-5P, Water, preparation
ΙT
        (functional aquarium water and its prepn.)
             THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT 5
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
L32 ANSWER 14 OF 16 HCA COPYRIGHT 2008 ACS on STN
    137:51911 HCA Full-text
AN
    Filter producing yellow-soil water
ΤI
    Lee, Sang Chul
ΙN
PA
    S. Korea
    Repub. Korean Kongkae Taeho Kongbo, No pp. given
SO
    CODEN: KRXXA7
    Patent
DT
LA
    Korean
FAN.CNT 1
    PATENT NO. KIND DATE APPLICATION NO.
                                                           DATE
                              PΙ
   KR 2000060419 A 20001016 KR 1999-8681
                                                                 199903
                                                                 15
                                               <--
                               19990315 <--
PRAI KR 1999-8681
     A filter producing yellow-soil purified water which is made by
     putting the yellow soil, charcoal powder, stone, elvan and germanium
     into the cloth bag, connecting to the tap, and producing yellow-soil
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water by the water pressure is provided. A filter producing yellow-

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soil water is comprised of: 50-60 wt.% of yellow soil, 20-30 wt.% of
     charcoal powder, 10-20 wt.% of stone, 10-20 wt.% of elvan, and 10-20
     wt.% of germanium. Water pressure forces the water through the
     filter in the cloth bag, and then the purified water is stored in a
     storing tank.
    ICM B01D039-06
    61-5 (Water)
    water purifn filter yellow soil
    charcoal stone elvan germanium
    Filters
        (bags, fabric; water purifn. process using filter
        contg. yellow soil, charcoal powder, stone,
        elvan and germanium)
    Water purification
        (filtration; water purifn. process using filter contg.
       yellow soil, charcoal powder, stone, elvan and
       germanium)
    Charcoal
    Elvanite
    Stone (construction material)
        (water purifn. process using filter contg.
        yellow soil, charcoal powder, stone, elvan and
       germanium)
    Soils
        (yellow; water purifn. process using filter
        contq. yellow soil, charcoal powder, stone,
        elvan and germanium)
    7440-56-4, Germanium, uses
        (water purifn. process using filter contg.
       yellow soil, charcoal powder, stone, elvan and
       germanium)
    ANSWER 15 OF 16 HCA COPYRIGHT 2008 ACS on STN
    136:90207 HCA Full-text
    Method and apparatus for sterilization of active clear water
    Kim, Kwan Hyung; Kim, Byung Kuk
    Korea Energy Service Co., Ltd., S. Korea
    Repub. Korean Kongkae Taeho Kongbo, No pp. given
    CODEN: KRXXA7
    Patent
    Korean
FAN.CNT 1
    PATENT NO.
                  KIND DATE
                                      APPLICATION NO.
                                                                 DATE
     _____
    KR 2000006771 A 20000207 KR 1999-48064
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199911

ΙC CC

ST

ΙT

ΙT

ΙT

ΙT

ΙT

L32

AN

ΤI ΙN

PA

SO

DT

LA

PΙ

200003 14

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PRAI KR 1999-48064 A 19991101 <--

The method and app. are provided which has a good sterilization effect and bleaching effect. An inner stainless case is installed at an interval with outer stainless case. Sidewall valves mixed by sericite mineral powder and 10% of Se, 30% of mica, 5% of yellow earth, 10% of Ge, 5% of Ca silicate, 10% of Mg, 20% of Al are formed inside of the inner and outer side cases. Several end jaws are installed inside of the sidewall valve. Filtration valves having a different diam. and H2O supply hole are installed in central part of the outer case.

IC ICM C02F009-00

ICS C02F001-32; C02F001-461; C02F001-68

CC 60-2 (Waste Treatment and Disposal)

Section cross-reference(s): 61

ST app sterilization clear water purifn wastewater

IT Wastewater treatment

Water purification

(app.; method and app. for sterilization of active clear water)

IT Water purification

(filtration; method and app. for sterilization of active clear water)

IT Bleaching

Mineral waters

Sterilization and Disinfection

Valves

Water purification

(method and app. for sterilization of active clear water)

IT Mica-group minerals, uses

(method and app. for sterilization of active clear water)

IT Water purification

(sterilization and disinfection; method and app. for sterilization of active clear water)

1344-95-2, Calcium silicate 7429-90-5, Aluminum, uses 7439-95-4, Magnesium, uses 7440-56-4, Germanium, uses 7782-49-2, Selenium, uses 12174-53-7, Sericite (method and app. for sterilization of active clear water

)

L32 ANSWER 16 OF 16 HCA COPYRIGHT 2008 ACS on STN

AN 136:85121 HCA Full-text

TI Liquor composition and preparation method thereof

IN Chon, Chang Ho

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2000025516	А	20000506	KR 1998-42621	199810 13

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PRAI KR 1998-42621

19981013 <--

AB A liquor compn. and a prepn. method thereof are provided which contains various kinds of minerals, vitamins, and good components for people by ripening and fermenting mulberry leaves (or silkworm excrement). The liquor compn. comprises 5-10% of yeast, 10-15% of a hard-boiled rice, 10-15% of ginkgo nut leaves, 10-20% of persimmon leaves, 10-20% of mulberry leaves (or silkworm excrement), 10-50% of yellow soil-dild. water, and 5-10% of inorg. germanium.

IC ICM C12G003-00

CC 17-13 (Food and Feed Chemistry)

IT Wastewater

(yellow water; liquor compn. and prepn. method thereof)

IT 7440-56-4, Germanium, biological studies

(inorg.; liquor compn. and prepn. method thereof)

=> D L33 1-12 TI

- L33 ANSWER 1 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Cubic wallpaper containing material radiating far infrared ray
- L33 ANSWER 2 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Manufacturing method of fabric radiating anion to balance ion
- L33 ANSWER 3 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Functional dual-adhesion textiles adding functional materials to resin adhesives
- L33 ANSWER 4 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Functional wallpaper and manufacturing method thereof

- L33 ANSWER 5 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Functional polymer composition for nonpolluting products
- L33 ANSWER 6 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Fertilizer for organic agricultural products
- L33 ANSWER 7 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Yellow soil adhesive and yellow soil paint
- L33 ANSWER 8 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Composition for various nutrition bath and massage by fractioning, adding and mixing various natural mineral materials and nutrient materials
- L33 ANSWER 9 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Composition for making relief wall painting and preparation method thereof
- L33 ANSWER 10 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Method for preparing soil conditioner from mixed powder of rough germanium and charcoal
- L33 ANSWER 11 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Manufacture of artificial dipping stone from soil, yellow soil and feldspar coated with ash-yellow soil-germanium enamel
- L33 ANSWER 12 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Study on soil environmental background values in Fujian Province

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=> D L33 6,7,8,9 BIB ABS HITIND

L33 ANSWER 6 OF 12 HCA COPYRIGHT 2008 ACS on STN

AN 142:197252 HCA Full-text

TI Fertilizer for organic agricultural products

IN Back, Iee Nam

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

1 1111	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2002084971	A	20021116	KR 2001-24123	
					200105 03

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PRAI KR 2001-24123 20010503 <--

AB A fertilizer for org. agricultural products using minerals, P and K-contained materials, and orgs. (shell, microbes, amino acids, etc.), excluding chem. components, is provided to hasten harvest, give resistance to harmful insects, and freezing-cold, and improve sweetness, flavor, taste of products. The fertilizer comprises the components of: minerals composed of SiO2 and Al2O3 as main components, sintered (at 600°C) minerals such as quartz porphyry,

jade, yellow earth, germanium, etc., which hastens growth of crops; natural phosphoric acid such as phosphate, calcium phosphate or bone; natural kalium (K) like ash generated from burning plants; orgs. such as CaCO3, shell, rice hull, charcoal and microbes and amino acids. The fertilizer is produced by mixing minerals or sintered minerals, natural P-component, natural K-component, orgs. in a wt. ratio of 5-50, each.

IC ICM C05G001-00

CC 19-6 (Fertilizers, Soils, and Plant Nutrition)

IT Soils

(yellow; fertilizer for org. agricultural products)

IT 471-34-1, Calcium carbonate (CaCO3), biological studies 1344-28-1, Alumina, biological studies 7440-09-7, Potassium, biological studies 7440-56-4, Germanium, biological studies 7631-86-9, Silica, biological studies 7723-14-0, Phosphorus, biological studies 10103-46-5, Calcium phosphate 12601-21-7, Jade 14265-44-2, Phosphate, biological studies (fertilizer for org. agricultural products)

L33 ANSWER 7 OF 12 HCA COPYRIGHT 2008 ACS on STN

AN 142:116167 HCA Full-text

TI Yellow soil adhesive and yellow soil paint

IN Son, Jung Ho

PA S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2001069370	А	20010725	KR 2001-14744	200103

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PRAI KR 2001-14744 20010314 <--

AB Provided are a yellow soil adhesive and a yellow soil paint, which emit IR rays and have deodorizing and antimicrobial action, therefore, which are helpful for health of human bodies. The yellow soil adhesive and yellow soil paint are produced by mixing and grinding yellow soil as a main component, hard charcoal, elvan, germanium, and jade to make >100 in mash size of fine powder and mixing the powder and a liq.-phase or powdery silica soda (2Na2O.SiO2) in the ratio of 1.5:1 and then preheating at 80-90°.

IC ICM C09J001-00

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CC
     42-10 (Coatings, Inks, and Related Products)
    yellow soil adhesive yellow
ST
     soil paint
ΙT
    Adhesives
    Paints
        (yellow soil adhesive and yellow
        soil paint)
    Charcoal
ΙT
     Elvanite
        (yellow soil adhesive and yellow
        soil paint)
ΙT
    Soils
        (yellow; yellow soil adhesive and
        yellow soil paint)
     1313-59-3, Sodium oxide, uses 7440-56-4, Germanium, uses
ΙT
     7631-86-9, Silica, uses 12601-21-7, Jade
        (yellow soil adhesive and yellow
        soil paint)
    ANSWER 8 OF 12 HCA COPYRIGHT 2008 ACS on STN
L33
AN
    142:99947 HCA Full-text
ΤI
    Composition for various nutrition bath and massage by fractioning,
     adding and mixing various natural mineral materials and nutrient
    materials
    Won, In Ho
IN
PA
    S. Korea
    Repub. Korean Kongkae Taeho Kongbo, No pp. given
SO
     CODEN: KRXXA7
DT
    Patent
LA
    Korean
FAN.CNT 1
    PATENT NO.
                                                                 DATE
                        KIND
                                      APPLICATION NO.
                               DATE
     _____
    KR 2001018525 A 20010305 KR 1999-34502
PI
                                                                  199908
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PRAI KR 1999-34502 19990819 <--

AB A compn. prepd. by fractioning, adding and mixing various natural mineral materials and nutrient materials is provided, which promotes activities of the internal organs in general through the energy way distributed all over the body; helps smooth blood flow in peripheral tissue; and activates metab.; so accelerates excretion and exchange of fatigue materials, and shows nervous rest effect. A process for the prepn. of compn. for nutrition bath and massage comprises: pouring granite stone powder(or bio-ceramic powder, germanium stone

powder, gemstone powder, yellow soil powder, bio-stone powder, selenium-contained stone powder) 5% and over, complex vitamin powder(K.P.) 1% and over, sodium bicarbonate 2% and over, lanolin 0.5% and over, borax 1.5% and over, sodium silicate 1% and over, sodium carbonate 1% and over, sodium phosphate 1% and over, salt 1% and over, aluminum silicate 1% and over, alumina 1% and over, titania 1% and over, silicate powder 1% and over and glycerin 1% and over into a container; mixing and packaging.

- IC ICM A61K007-50
- CC 62-4 (Essential Oils and Cosmetics)
- IT Soils

(yellow; compn. for various nutrition bath and massage)

IT 56-81-5, Glycerin, biological studies 144-55-8, Sodium bicarbonate, biological studies 497-19-8, Sodium carbonate, biological studies 1303-96-4, Borax 1335-30-4, Aluminum silicate 1344-09-8, Sodium silicate 1344-28-1, Alumina, biological studies 7440-56-4, Germanium, biological studies 7632-05-5, Sodium phosphate 7782-49-2, Selenium, biological studies 13463-67-7, Titania, biological studies

(compn. for various nutrition bath and massage)

- L33 ANSWER 9 OF 12 HCA COPYRIGHT 2008 ACS on STN
- AN 142:95877 HCA Full-text
- TI Composition for making relief wall painting and preparation method thereof
- IN Jeong, Se Young
- PA S. Korea
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7
- DT Patent
- LA Korean
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2001046450	A	20010615	KR 1999-50227	199911 12

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PRAI KR 1999-50227

19991112 <--

AB A compn. for making relief wall painting and its prepn. method are provided, which compn. radiates the far IR ray useful to the human health, deodorizes and is insect-repellent, antibacterial and fire proofing. The compn. comprises 55 wt% of yellow soil; 25 wt% of Elvan; 5 wt% of ceramic; 5 wt% of germanium; 5 wt% of jade; and 5 wt% of a vegetable adhesive. The method comprises the steps of pulverizing yellow soil, Elvan, ceramic, germanium and jade, resp.,

to obtain the pulverized materials; sintering the pulverized yellow soil; mixing 55 wt% of yellow soil, 25 wt% of Elvan, 5 wt% of ceramic, 5 wt% of germanium and 5 wt% of jade; and adding 5 wt% of a vegetable adhesive to the mixt. and pasting it. Preferably the vegetable adhesive is made by using starch.

- IC ICM C09D005-06
- CC 42-10 (Coatings, Inks, and Related Products)
- IT Soils
 - (yellow; compn. for making relief wall painting)
- IT 7440-56-4, Germanium, uses 12601-21-7, Jade (compn. for making relief wall painting)